🔉 ovaga

LTC1668IG#PBF

Data Sheet

Digital to Analogue Converter, 16 bit, 50 MSPS, Parallel, \pm 4.75V to \pm 5.25V, SSOP, 28 Pins

Manufacturers	Analog Devices, Inc	
Package/Case	28-SSOP	and the state of t
Product Type	Data Conversion ICs	Sheer
RoHS	Pb-free Halide free	
Lifecycle		Images are for reference only
Please submit RFQ for LTC1668IG#PBF or Email to us: sales@ovaga.com We will contact you in 12 hours.		

General Description

The LTC1666/LTC1667/LTC1668 are 12-/14-/16-bit, 50Msps differential current output DACs implemented on a high performance BiCMOS process with laser trimmed, thin-film resistors. The combination of a novel current-steering architecture and a high performance process produces DACs with exceptional AC and DC performance. The LTC1668 is the first 16-bit DAC in the marketplace to exhibit an SFDR (spurious free dynamic range) of 87dB for an output signal frequency of 1MHz.

Operating from $\pm 5V$ supplies, the LTC1666/LTC1667/LTC1668 can be configured to provide full-scale output currents up to 10mA. The differential current outputs of the DACs allow single-ended or true differential operation. The -1V to 1V output compliance of the LTC1666/LTC1667/LTC1668 allows the outputs to be connected directly to external resistors to produce a differential output voltage without degrading the converter's linearity. Alternatively, the outputs can be connected to the summing junction of a high speed operational amplifier, or to a transformer.

The LTC1666/LTC1667/LTC1668 are pin compatible and are available in a 28-pin SSOP and are fully specified over the industrial temperature range.

Features

50Msps Update Rate

Pin Compatible 12-Bit, 14-Bit and 16-Bit Devices

High Spectral Purity: 87dB SFDR at 1MHz fOUT

5pV-s Glitch Impulse

Differential Current Outputs

20ns Settling Time

Low Power: 180mW from ±5V Supplies

TTL/CMOS (3.3V or 5V) Inputs

Small Package: 28-Pin SSOP

Related Products



LTC1860IMS8#PBF Analog Devices, Inc MSOP-8



LT1171CQ Analog Devices, Inc TO-263

LTC2485IDD#PBF



Analog Devices, Inc DFN-10



LTC2418IGN#PBF Analog Devices, Inc SSOP28



LTC23511UH-14#PBF

Analog Devices, Inc QFN-32

Application

Cellular Base Stations

Multicarrier Base Stations

Wireless Communication

xDSL Modems

Instrumentation

Direct Digital Synthesis (DDS)

Arbitrary Waveform Generation

Automated Test Equipment

LTC2600CGN#PBF

Analog Devices, Inc SSOP16

LTC2642CMS-16#PBF

Analog Devices, Inc 10MSOP

LTC1865AIMS#PBF

Analog Devices, Inc MSOP-1





Ovaga Technologies Limited